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                                                                                                                                                                                                                                                          Score
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seq length: 2000000000
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1: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
2: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
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4: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*
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7: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1987.DAT:*
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Gapop 10.0 , Gapext 0.5
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100.0
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  AAB08843
AAY94001
AAE09241
AAE00506
AAB60698
AAY71979
ABB81487
AAE15484
AAB60700
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Human BCMA protein
Human B cell matur
Human BAFF recepto
Human B cell matur
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8.1	8.1	٠	٠	8.2	٠			8.5	٠			9.4	9.6	9.6	9.8	10.1	10.3	10.4	10.7	10.8	10.9	11.0	12.1	12.1	19.4	20.9	29.5	29.7	29.7	٠	32.3		59.3	59.3
293	265	857	1009	1009	1009	293	576	1009	1009	1009	404	24	266	184	185	185	185	185	185	21	185	185	175	175	281	34	51	283	302	302	117	58	185	185
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AAW75783	AAE09244	AAR29814	AAW48373	.AAW57891	AAR98351	AAU09900	AAY23925	AAW48374	AAW64568	AAW61196	AA014136	AAE15492	AAE22243	ABB81483	AAE22242	AAE22270	AAE22268	AAE22271	AAE22269	AAE15487	AAE22267	AAE22266	AAE22244	ABB81489	AAE15489	8	48	æ	on.	AAE00507	AAE15491	AAE15501	54	AAY71980
1ymph		eptor ki	related adh	PYK-2 p	Probin tyrosine ki	AGP-3	<ul> <li>Amino acid sequenc</li> </ul>	Mouse related adhe	Œ	ein tyr				Ztnfr12	matur	BAFF	BAFF	BAFF	BAFF	$\overline{}$	BAFF	BAFF r	æ		BCMA-hu	B-cell		BCM		3	-murine	B cell	B cell m	Murine B cell matu

## ALIGNMENTS

AAB08843 standard; peptide; 184 AA

02-JAN-2001 AAB08843;

(first entry)

Amino acid sequence of human.

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ARESULT 1
AABO843
ID AABO
XX AABO
XX AABO
DT 02-J
XX Amin
XX BCMA
KW BCMA
KW Anti
KW Yheu
OX Homc
XX GEH
XX GEH
XX GEH
PR 24-F
XX GEH
PR 24-F
XX GEH
PR Seeci
WPI; 2000-558405/51.
                                                                                                                                                                                           Key
Domain
                                                                                                                                                                                                                                                    BCMA; necrosis factor-kB activator; NF-kB; gene expression; cancer; anti-cell death gene; apoptosis; viral infection; inflammatory response; rheumatoid arthritis; inflammatory bowel disease; septic shock.
                         Seed B,
                                                                                                24-FEB-2000; 2000WO-US04925
                                                                          24-FEB-1999;
                                                                                                                             31-AUG-2000.
                                                                                                                                                                                                                                Homo sapiens.
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                                                 (GEHO ) GEN HOSPITAL CORP
                      Ting A;
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Best Local S
Matches 184
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                                                                                                                                                                   Human; BR43x2; TACI receptor; extracellular domain; BCMA; B cell prottransmembrane activator and CAML-interactor; tumour necrosis factor; ztnf4 activity; antibody production; autoimmune disease; amyloidosis; systemic lupus erythematosus; myasthenia gravis; multiple sclerosis; rheumatoid arthritis; asthma; bronchitis; emphysema; pyelonephritis; end stage renal failure; glomerulonephritis; vasculitis; nephritis; renal neoplasm; multiple myeloma; lymphoma; light chain neuropathy;
                                                                                                      immune response; immunosuppression; graft rejection; joint pain; graft versus host disease; inflammation; swelling; anaemia; septic shock; insulin dependent diabetes mellitus; Crohn's disease; hypertension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                  A human BCMA protein, a B cell protein related to TACI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY94001 standard; Protein; 184
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                                                                                 renal artery stenosis;
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                                                                                      occlusion; cholesterol; renal emboli
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WO200049716-A2 Homo sapiens

19-NOV-2001

(first entry)

AAE09241;

AAE09241 standard;

Protein;

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60

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180

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RESULT 3
AAE09241
ID AAE0
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AC AAE0
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Best Local Similarity
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Pred. No. 1.3e-95;
); Mismatches 0;
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BCMA protein.

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                                                                                                                                                                                                                                                                                                                       ery Match
                                                                                                                                                                                                                                                                                                                                                                                     e.g. TACI or BCMA. The method is useful for treating pathological conditions or diseases associated with increased TALL-1 and APRIL expression or activity. TALL-1 and APRIL antagonists are used to block the interaction between APRIL and TALL-1 with TACI or BCMA. They are useful for treating a mammal suffering from cancer such as leukaemia, lymphoma, myeloma, cancers of lung and colon and autoimmune diseases e.g. rheumatoid arthritis, multiple sclerosis, psociasis and lupus erythematosus. The present sequence is human
               AAE00506
                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to methods of using one or more agonists or antagonists to modulate the activity of the members of TNF (tumou necrossis factor) especially TALL-1, APRIL and TNF receptor (TNFR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antagonists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inhibiting or neutralizing TALL-1 or APRIL polypeptide biological activity, for treating autoimmune disorders and cancer, comprises exposing the cells to TALL-1 or APRIL polypeptide agonists or
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22-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ashkenazi AJ,
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                                                                                                                                                   YTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCKSLPAALSATEIEKS 180
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                                                                                                                                                                                                                                                           MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL
              standard;
                                                                                                         ISAR
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                                                                               ISAR
                                                                                                                                 YTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCKSLPAALSATEIEKS
                                                                                                                                                                                                                                                                                                                                                    184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease; rheumatoid arthritis; multiple sclerosis;
                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumour necrosis factor; TALL-1; APRIL; TNF receptor; BCMA; therapy; cancer; leukaemia; myeloma; lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000US-0182938
2000US-0226986
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                                                                                                                                                                                                                                                                                                                                                    AA;
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               Protein; 184
                                                                                                                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                                                                                                                          Score 964; DB 22; Length Pred. No. 1.3e-95;
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Best Local S
Matches 184
                                                                                                                                                                                                                               B cell maturation protein (BCM or BCMA) antagonist that antagonises the interaction between APRIL and its cognate receptor(e). This method is useful for treating undesired cell proliferation such as cancer or carcinoma e.g. human lung carcinoma, colon carcinoma, breast carcinoma, prostate carcinoma, and other carcinomas whose proliferation is modulated by APRIL. It is also useful for treating autoimmune diseases (Grave's disease, systemic lupus erythematosus-SLB); hypertension, cardiovascular diseases, renal disorders, B-cell lympho-proliferative disorders, immunosuppressive diseases, organ transplantation, inflammation and human immunodeficiency virus (HIV), and for treating pathway between APRIL-R and its ligand. APRIL-R DNA is also useful in gene therapy.

The present sequence is human APRIL-R also referred as BCMA or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-OCT-1999;
11-FEB-2000;
30-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method of treating a mammal for a condition associated with undesired cell proliferation such as cancer or carcinoma. The method involves administering a composition comprising A Proliferation Inducing Ligand Receptor (APRIL R) also referred as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; A Proliferation Inducing Ligand Receptor; APRIL-R; cytostatic; gene therapy; cancer; nephrotropic; renal disorder; autoimmune disease; gene therapy; colon; breast; prostate; Graverer; autoimmune disease; carcinoma; lung; colon; breast; prostate; Graverer; disease; hypertension; systemic lupus erythematosus; SLB; inflammation; cardiovascular disease; B-cell lympho-proliferative disorder; BCM; immunosuppressive disease; organ transplantation; HIV; human immunodeficiency virus; TNF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating a mammal for a condition associated with undesired cell proliferation such as cancer or carcinoma, comprises administering composition comprising A Proliferation Inducing Ligand Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schneider P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (APRIL-R) antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2001-266242/27.
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                                                                                                                                  Similarity
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GLSLIISLAVFVLMFLLRKISSBPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLE
                                                                   MIQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL
                                                  MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL
                                                                                                                                                                                      184 AA;
                                                                                                                100.0%;
ilarity 100.0%;
Conservative
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2000US-0215688:
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                                                                                                                Score 964; DB 22;
Pred. No. 1.3e-95;
; Mismatches 0;
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GLSLIISLAVFVLMFLLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLE

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The invention relates to the use of a BAFF receptor (BAFF-R, also known cas BCMA) protein, or a BAFF-R fusion protein as an agent for the treatment of a variety of immune-related disorders. BAFF-R is a member of the TNF (tumour necrosis factor) family, acting as an immunoregulatory agent, and also plays a role in the development of hypertension and related disorders. BAFF-R, fusion proteins containing it, and BAFF-R-R, fusion proteins containing it, and BAFF-R-R-CC specific antibodies can be used for inhibiting B-cell growth, dendritic cell-induced B-cell growth and maturation, and immunoglobulin production, and in the treatment of autoimmune disorders, B-cell lymphoproliferative disorders, hypertension and renal disorders. B-cell lymphoproliferative be used in the treatment of immunosuppressive disorders and HIV infection, and in patients undergoing organ transplantation. The BAFF-R proteins or BAFF-R specific antibodies may be used for treating, suppressing or altering an immune response involving a signalling pathway between, BAFF-R and BAFF-R, thereby inhibiting inflammation. Since BAFF-R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human BAFF-R; BAFF receptor; TNF family; immunoregulatory agent; immune-related disorder; B-cell growth inhibitor; BCMA; B-cell maturation inhibitor; immunoglobulin production inhibitor; autoimmune disorder; B-cell lymphoproliferative disorder; hypertension; renal disorder; immunosuppressive disorder; HIV infection; organ transplantation; antiinflammatory; systemic lupus erythematosus; autoimmune haemolytic anaemia; Grave's disease; multiple myeloma; B-cell carcinoma; leukaemia; rapidly progressive glomerulonephritis;
                                                                                                                                                                                                                                                                                                                                                                    Inhibiting dendritic cell-induced B-cell growth, maturation and B-cell lympho-proliferative disorder by administering BAFF-receptor polypeptide, chimeric molecule comprising receptor or anti-BAFF-R antibody homolog
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N-PSDB; AAF59998.
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11-FEB-2000; 2000US-0181684
18-FEB-2000; 2000US-0183536
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                                                                                                                                                                                                                                                                                                                              Claim 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MacKay F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BIOJ ) BIOGEN INC. (APOT-) APOTECH R & D SA.
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                                                                                                                                                                                                                                                                                                                            Fig 1; 59pp;
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                                                                                                                                                                                                                                                                                                                              English.
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Best Local Similarity 100.0%;
Matches 184; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; Tumour Necrosis Factor; TNF; immunosuppressant; TALL-1;
Tumour necrosis factor and ApoL-related Leucocyte expressed Ligand 1;
therapy; autoimmune disorder; rheumatoid arthritis; multiple sclerosis;
systemic lupus erythematosus; SLF; insulin dependent diabetes mellitus;
thrombocytopenia purpura; acute rheumatic fever; Goodpasture's syndrome;
haemolytic anaemia; Grave's disease; myasthenia gravis; chromosome 16;
post-streptococcal glomerulonephritis; polyarteritis nodosa; BCMA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inhibits B-cell growth and maturation it is useful for treating diseases such as systemic lupus erythematosus, autoimmune haemolytic anaemia, Grave's disease, multiple myeloma, B-cell carcinomas, leukaemia, rapidly progressive glomerulonephritis, and lymphomas. Nucleic acids encoding human BAFF-R may be used in gene therapy to treat tumours, lymphomas, autoimmune disorders and inherited B-cell-associated disorders. The
                                                        WPI; 2001-016094/02
N-PSDB; AAD02125.
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                                                                                                                                                                                                                                                                     06-MAY-1999;
01-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                             05-MAY-2000; 2000WO-US12266
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2000US-0201012.
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Pred. No. 1.3e-95;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vulgaris; B-lymphocyte
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Isolated TALL-1 protein is used to identify compounds that regulate

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The TALL-1 protein and its corresponding nucleic acid sequence are also useful in diagnostic assays.

The present sequence is a human B cell maturation factor (BCMA) crotein. It is the receptor for TALL-1 protein. BCMA gene is located on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected on chromosome 16. In human tissues, BCMA is expressed by collected tissues, BCMA is expressed by collected tissues.
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                    Human; Ztnfr12; tumour necrosis factor receptor; cytostatic; immunosuppressive; dermatological; antiinflammatory; antidabetic; neuroprotective; antirheumatic; antiarthatic; nephrotropic; hypotensive; gene therapy; B lymphocyte; tumour; nephrotropic; hypotensive; gene therapy; B lymphocyte; tumour; autoimmune disorder; systemic lupus erythematosus; myasthenia gravis; multiple sclerosis; insulin dependent diabetes mellitus; asthma; rheumatoid arthritis; bronchitis; emphysema; renal disease; lymphoma; plomerrulonephritis; renal neoplasm; multiple myeloma; amyloidosis; pyelonephritis; renal neoplasm; multiple myeloma; amyloidosis; light chain neuropathy; hypertension; large vessel disease;
                                                                                                                                                                                                                                                                                                                                Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABB81487 standard; Protein; 184 AA.
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                                                                                                                                                                                                                                                                                                                              receptor related protein SEQ ID NO:7.
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graft rejection;
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Pred. No. 1.3e-95;
Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                          CC dermatological, antiarthritic, antiasthmatic, nephrotropic and hypotensive activities, and can be used in gene therapy. (1) can be used for cinhibiting, in a mammal, the activity of a ligand that binds Ztnffl2 (e.g. ZTNF4), for treating disorders and disease associated with B CC lymphocytes, activated B lymphocytes are resting B lymphocytes, and for cinhibiting the proliferation of tumour cells. (1) is useful for treating CC autoimmune disorders such as systemic lupus erythematosus, myasthenia CC gravis, multiple sclerosis, insulin dependent diabetes mellitus, asthma, CC rheumatoid arthritis, bronchitis, emphysema and end stage renal failure or renal disease such as glomerulonephritis, vasculitis, chronic lymphocid CC leukaemia, nephritis, and pyelonephritis, and for treating renal CC neoplasms, multiple myelomas, lymphomas, light chain neuropathy, or CC amyloidosis, hypertension, large vessel diseases, graft-versus host CC disease, graft rejection and Crohn's disease. (1) is useful for CC modulating the immune system, for regulating B cell responses and CC development, for modulating development of other cells, antibody production and cytokine production, and for modulating T and B cell CC communication. The present sequence represents a protein which is
                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 184
                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel isolated human tumor necrosis factor receptor polypeptide, termed Ztnfr 12, useful for treating autoimmune disorders, emphysema, end stage renal failure or renal disease and lymphoma -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-NOV-2000; 2000US-246449P;
20-DEC-2000; 2000US-257131P,
28-JUN-2001; 2001US-301715P.
29-AUG-2001; 2001US-315565P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present designated ;
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                                                                                                                                                                                                                                                                                                  Similarity
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ISAR
                                 ISAR 184
                                                                                                                                       GLSLIISLAVFVLMFLLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLE
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                                                                                                                                                                                                                                             MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL
                                                                    YTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCKSLPAALSATEIEKS
                                                                                     YTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCKSLPAALSATEIEKS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                t invention describes a human tumour necrosis factor receptor Ztnfr12 (I). (I) has cytostatic, immunosuppressive,
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                                                                                                                                                                                                                                                                                                                                                        184 AA;
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ilarity 100.0%;
Conservative (
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Pred. No. 1.3e-95;
); Mismatches 0;
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drug allergy; dermatitis; pneumonia; asthma; inflammatory bowel disease; Crohn's disease; scleroderma; autoimmune disease; multiple sclerosis; human immunodeficiency virus; HIV; systemic lupus erythematosus; cancer;
                                                                                                                                    Human; transmembrane activator and intracellular CAML interactor; TACI; cytostatic; B cell maturation protein; BCMA; tumour necrosis factor; TNF; lymphoproliferative disorder; tumour; lung; gastrointestinal; pancreatic; lymphoproliferative disorder; diarrhoea; psoriasis; colitis; prostate; inflammation; immune disorder; diarrhoea; psoriasis; colitis;
                                                  rheumatoid arthritis; atherosclerosis.
                                                                                                                                                                                                                                                 Human
                                                                                                                                                                                                                                                 B-cell maturation (BCMA)
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12-MAR-2002

(first entry)

protein.

AAE15484 standard; Protein; 181

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Homo sapiens

Key Region

Location/Qualifiers 5..38

the specification" /note= "Cysteine-rich co is specifically claimed

consensus region; ed as SEQ ID NO: 7

This is region in claim 1 of

/label= Transmembrane\_domain

Domain WO200187979-A2

12-MAY-2000; 2000US-204039P. 27-JUN-2000; 2000US-214591P. 14-MAY-2001; 2001US-0214591. 14-MAY-2001; 2001WO-US15567

Theill LE, (AMGE-) AMGEN INC.

WPI;

2002-066686/09 泛

Inhibiting activity of B cell maturation protein and/or transmembrane activator and intracellular cyclophilin ligand interactor, by administering a binding partner for APRIL, a tumor necrosis factor

Disclosure; Fig 10A; 94pp; English.

family ligand), having the consensus region of TACI, BCMA, or the TACI/
(BCMA extracellular consensus sequence, but not the extracellular region of TACI or BCMA. The method is useful for inhibiting activity of TACI and/or BCMA in a mammal which is useful for treating B-cell or T-cell lymphoproliferative disorders, one or more solid tumours such as lung, gastrointestinal, pancreatic or prostate tumour. APRIL, BCMA and TACI antagonists are useful for treating inflammation and immune function diseases such as diarrhoea, psoriasis, allergies, pneumonia, acopic dermatitis, respiratory allergic disease (asthma, hypersensitivity lung disease), drug and insect sting allergy, inflammatory bowel disease (Crohn's disease, colitis), scleroderma, autoimmune disease (multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus), fungal, bacterial, protozoal and viral infections (HIV), atherosclerosis, cancer with leucocyte infiltration of the skin or organs. The present sequence The invention relates to a method for inhibiting TACI (transmembrane activator and intracellular CAML interactor) and/or B cell maturation protein otein (BCMA) activity in a mammal. The method comprises administering specific binding partner for APRIL (G70, a tumour necrosis factor-TNF

Sequence 181

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                                          Matches 181;
                                                                Query Match
                                                       Local Similarity
                    4 MAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLS
                                           Conservative
                                                       100.0%;
                                                                  98.5%;
                                                      Score 950; Pred. No.
                                           0
                                            Mismatches
                                                       4e-94;
                                                                   80
                                              0
                                                                  Length 181;
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                                           Gaps
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AAB60700 standard; Protein;

AAB60700;

22-MAY-2001 (first entry)

Human BAFF receptor (BAFF-R) sequence encoded by A plasmid pJST535

immune-related disorder; B-cell growth inhibitor; BCMA; B-cell maturation inhibitor; immunoglobulin production inhibitor; autoimmune disorder; B-cell lymphoproliferative disorder; hypertension renal disorder; immunosuppressive disorder; HIV infection; organ transplantation; antiinflammatory; systemic lupus erythematosus; autoimmune haemolytic anaemia; rapidly progressive glomerulonephritis; B-cell carcinoma; leukaemia; rapidly progressive glomerulonephritis; lymphoma; gene therapy; cancer; tumour; plasmid pJST535. Human BAFF-R; BAFF receptor; TNF family; immunoregulatory hypertension; agent;

Homo sapiens

WO200112812-A2

16-AUG-2000; 2000WO-US22507

17-AUG-1999; 18-FEB-2000; .1-FEB-2000; 2000US-0181684 2000US-0183536 99US-0149378

(BIOJ ) (APOT-) BIOGEN INC. APOTECH R & D SA.

маскау F, 4 Browning Ç Ambrose C, Tschopp 'n Schneider

WPI; 2001-202866/20. N-PSDB; AAF60000.

Inhibiting dendritic cell-induced B-cell growth, maturation and B-cell lympho-proliferative disorder by administering BAFF-receptor polypeptide, chimeric molecule comprising receptor or anti-BAFF-R antibody homolog

Example 1; Fig ω •• 59pp; English

The invention relates to the use of a BAFF receptor (BAFF-R, also as BCMA) protein, or a BAFF-R fusion protein as an agent for the treatment of a variety of immune-related disorders. BAFF-R is a me (tumour necrosis factor) acting as of f

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Best Local Sim
Matches 157;
                                                            24-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BCMA; necrosis anti-cell death
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           such as systemic lupus erythematosus, autoimmune haemolytic anāemia, Grave's disease, multiple myeloma, B-cell carcinomas, leukaemia, rapidly progressive glomerulonephritis, and lymphomas. Nucleic acids encoding human BAFF-R may be used in gene therapy to treat tumours, lymphomas, autoimmune disorders and inherited B-cell-associated disorders. The present sequence represents a human BAFF-R protein sequence as encoded by plasmid PJST535. However, this BAFF-R protein sequence is 27 amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    infection, and in patients undergoing organ transplantation. The BAFF-R proteins or BAFF-R specific antibodies may be used for treating, suppressing or altering an immune response involving a signalling pathway between BAFF-R and BAFF, thereby inhibiting inflammation. Since BAFF-R inhibits B-cell growth and maturation it is useful for treating diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      agent, and also plays a role in the development of hypertension and related disorders. BAFF-R, fusion proteins containing it, and BAFF-R-specific antibodies can be used for inhibiting B-cell growth, dendritic cell-induced B-cell growth and maturation, and immunoglobulin production, and in the treatment of autoimmune disorders, B-cell lymphoproliferative disorders, hypertension and renal disorders. The BAFF-R proteins may also be used in the treatment of immunosuppressive disorders and HIV
                                                                                                                     24-FEB-2000; 2000WO-US04925
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         death gene;
arthritis;
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HOSPITAL CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      factor-kB activator; NF-kB; gene expression; cancer;
h gene; apoptosis; viral infection; inflammatory resp
hritis; inflammatory bowel disease; septic shock.
                                                            99US-0121485
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85.3%;
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Pred. No. 2.2e-69;
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                                                                                                                                                                                                                                                                                                       domain
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Murine

B

maturation factor (BCMA)

protein.

28-MAR-2001

(first entry)

AAY71980 standard; Protein; 185

therapy; autoimmune disorder; rheumatoid arthritis; multiple sclerosis; systemic lupus erythematosus; SLE; insulin dependent diabetes mellitus; thrombocytopenia purpura; acute rheumatic fever; Goodpasture's syndrome; haemolytic anaemia; Grave's disease; myasthenia gravis; BCMA; B cell maturation factor; pemphigus vulgaris; B-lymphocyte proliferation post-streptococcal glomerulohephritis; polyarteritis nodosa.

proliferation;

Murine; Tumour Necrosis Factor; TNF; immunosuppressant; TALL-1; Tumour necrosis factor and ApoL-related Leucocyte expressed Ligand 1; Tumour necrosis factor and ApoL-related Leucocyte, multiple sclerosis; therapy; autoimmune disorder; rheumatoid arthritis; multiple sclerosis; systemic lupus erythematosus; SLE; insulin dependent diabetes mellitus;

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                   polypeptide which increases gene expression from a promoter. The method involves contacting a library of with a cell which expresses a recombinant anti-cell death gene and a reporter gene operably linked to the promoter, and then determining whether the expression of the reporter gene is altered as a result of contact with library. The method is useful for identifying polypeptides which increase or decrease gene expression from a promoter. The BCMA polypeptide or nucleic acid are useful for preparing a pharmaceutical composition for treating cancer, apoptosis, viral infections, inflammatory response, such as rheumatoid arthritis, inflammatory bowel disease or septic shock. BCMA is useful for identifying compounds that modulate NF-kB expression and thus for drug
                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence represents a BCMA (not defined) polypeptic is a necrosis factor (NF)-kB activator. The method of the inverse at the indentify compounds which modulate BCMA activity (and the activity). The specification describes a method of identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     contacting a compound 1 gene and reporter gene,
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                                                                                                                                                                                                                                                                                                                                                                                                                       designing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying a modulator of gene expression for drug designing, by contacting a compound library with a cell expressing an anti-cell gene and reporter gene, and determining alteration in reporter gene
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 179
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                                                                                               EYTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCK-SLPAAL-SATEI 177
                                                                                                                                                                                        LIISLAVFVLMFLLRKISSEPLKDEFKN----TGSGLLGMANIDLEKSRTGDEIILPRGL 119
                                                                                                                                                                                                                                                 MAGOCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLS
EKPTHTR 185
                                     EKSISAR 184
                                                                                                                                                    LVLSLALFTISFLLRKMNPEALKDEPQSPGQLDGSAQLDKADTELTRIRAGDDRIFPRSL
                                                                                                                                                                                                                             MAQQCFHSEYFDSLLHACKPCHLRCSN--PPATCQPYCDPSVTSSVKGTYTVLWIFLGLT
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                                                                                                                                                                                                                                                                                                                                                                                  185 AA;
                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                      59.3%; | Score 572; DB 21;
62.6%; Pred. No. 2.1e-53;
tive 21; Mismatches 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                            Length 185;
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RESULT 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to Tumour necrosis factor (TNF) and CC Apol-related Leucocyte expressed Ligand 1 (TALL-1) nucleic acid CC molecules, proteins (including homologues), and their antibodies. The CC invention in particular relates to methods for regulating the CC interaction between TALL-1 and TALL-1 receptors (BCMA referred as B cell CC maturation factor) to regulate monocyte, macrophage and B lymphocyte cCC mediated immune responses. TALL-1 protein is useful for identifying CC compounds that regulate B lymphocyte proliferation. It is also useful for creating B lymphocyte associated autoimmune disorders like rheumatoid CC arthritis, systemic lupus erythematosus (SLE), insulin dependent diabetes CC mellitus, multiple sclerosis, myasthenia gravis, Grave's disease, CC autoimmune haemolytic anaemia, autoimmune thrombocytopenia purpura, CC Goodpasture's syndrome, pemphigus vulgaris, acute rheumatic fever, CC post-streptococcal glomerulonephritis, or polyarteritis nodosa. CC The TALL-1 protein and its corresponding nucleic acid sequence are also CC useful in diagnostic assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful in diagnostic assays. The present sequence is a murine B cell maturation factor (BCMA). BCMA is the receptor for TALL-1 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-MAR-2002
                                                                                                     AAE15490 standard; Protein; 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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01-MAY-2000; 2000US-0201012.
 Mouse B. cell maturation (BCMA) protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 37; Page 107-108; 112pp; English
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les 117; Conserv
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DB; AAD02130.
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                                                                                                                                                                                                                                                                                                                                                   LIISLAVFVLMFLLRKISSEPLKDEFKN----TGSGLLGMANIDLEKSRTGDEIILPRGL
                                                                                                                                                                                                                                                                                                                                                                                                                                  MAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLS
                                                                                                                                                                                           EKPTHTR 185
                                                                                                                                                                                                                             EKSISAR 184
                                                                                                                                                                                                                                                               EYTVEECTCEDCVKSKPKGDSDHFFPLPAMEEGATILVTTKTGDYGKSSVPTALQSVMGM
                                                                                                                                                                                                                                                                                                                                                                                                    MAQQCFHSEYFDSLLHACKPCHLRCSN--PPATCQPYCDPSVTSSVKGTYTVLWIFLGLT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        185 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    59.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 572; DB 22;
Pred. No. 2.1e-53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
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12-MAY-2000; 2000US-204039P.
27-JUN-2000; 2000US-214591P.
14-MAY-2001; 2001US-0214591.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; B cell maturation protein; BCMA; tumour necrosis factor; TNF; lymphoproliferative disorder; tumour; lung; gastrointestinal; pancreatic; prostate; inflammation; immune disorder; diarrheea; psoriasis; colitis;
                                                                          Inhibiting activity of B cell maturation protein and/or transmembrane activator and intracellular cyclophilin ligand interactor, by administering a binding partner for APRIL, a tumor necrosis factor family ligand -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        drug allergy; dermatitis; pneumonia; asthma; inflammatory bowel disease; Crohn's disease; scleroderma; autoimmune disease; multiple sclerosis; human immunodeficiency virus; HIV; systemic lupus erythematosus; cancer; rheumatoid arthritis; atherosclerosis.
Disclosure; Fig 11; 94pp; English.
                                                                                                                                                                                                                                                                                                  WPI; 2002-066686/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-MAY-2001; 2001WO-US15567
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse; transmembrane activator and intracellular CAML interactor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200187979-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (AMGE-) AMGEN INC.
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The invention relates to a method for inhibiting TACI (transmembrane activator and intracellular CAML interactor) and/or B cell maturation protein (BCMA) activity in a mammal. The method comprises administering protein (BCMA) activity in a mammal. The method comprises administering composed a specific binding partner for APRIL (G70, a tumour necrosis factor-TNF family ligand), having the consensus region of TACI, BCMA, or the TACI/CE COMPA extracellular consensus sequence, but not the extracellular region of TACI or BCMA. The method is useful for inhibiting activity of TACI and/or BCMA in a mammal which is useful for treating B-cell or T-cell lymphoproliferative disorders, one or more solid tumours such as lung, Castrointestinal, pancreatic or prostate tumour. APRIL, BCMA and TACI diseases such as diarrhoea, psoriasis, altergies, pneumonia, atopic diseases such as diarrhoea, psoriasis, altergies, pneumonia, atopic diseases such as diarrhoea, psoriasis, altergies, prevensativity lung disease, colitis) sclerosis, autoimmune disease (multiple sclerosis, rheumatoid arthritis, systemic lypus erythematesus), fungal, bacterial, protozoal and viral infections (HIV), atherosclerosis, cancer while both a protein and the skin or organs. The present sequence is manuse BCMA protein. Sequence is mouse BCMA protein. 185 B

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Best Local S
Matches 117
                                 120
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117; Conser
                                                                                                                                                       MAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLS
                                                                                       LIISLAVFVLMFLLRKISSEPLKDEFKN----TGSGLLGMANIDLEKSRTGDEIILPRGL
                                                                                                                                MAQQCFHSEYFDSLLHACKPCHLRCSN--PPATCQPYCDPSVTSSVKGTYTVLWIFLGLT
BYTVEECTCEDCVKSKPKGDSDHFFPLPAMEEGATILVTTKTGDYGKSSVPTALQSVMGM
                   EYTVBECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCK-SLPAAL-SATEI 177
                                                                   LVLSLALFTISFLLRKMNPEALKDEPQSPGQLDGSAQLDKADTELTRIRAGDDRIFPRSL
                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                  59.3%; Score 572; DB 23; 62.6%; Pred. No. 2.1e-53; tive 21; Mismatches 41;
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Length 185;

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178

EKSISAR 184

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                                and/or BCMA in a mammal which is useful for treating B-cell or T-cell lymphoproliferative disorders, one or more solid tumours such as lung, gastrointestinal, pancreatic or prostate tumour. APRIL, BCMA and TACI antagonists are useful for treating inflammation and immune function diseases such as diarrhoea, psoriasis, allergies, pneumonia, atopic dermatitis, respiratory allergic disease, alterna, hypersensitivity lung disease, drug and insect sting allergy, inflammatory bowel disease (Crohn's disease, colitis), scleroderma, autoimmune disease (multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus), fungal, bacterial, protozoal and viral infections (HIV), atherosclerosis, cancer with leucocyte infiltration of the skin or organs. The present sequence is human BCMA cysteine-rich extracellular region.
                                                                                                                                                                                                                                                                                                a specific binding partner for APRIL (G70, a tumour necrosis factor-TNF family ligand), having the consensus region of TACI, BCMA, or the TACI/BCMA extracellular consensus sequence, but not the extracellular region of TACI or BCMA. The method is useful for inhibiting activity of TACI
                                                                                                                                                                                                                                                                                                                                                                                                                  activator and
                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig 13; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Inhibiting activity of B cell maturation protein and/or transmembrane activator and intracellular cyclophilin ligand interactor, by administering a binding partner for APRIL, a tumor necrosis factor family ligand
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27-JUN-2000; 2000US-214591P
14-MAY-2001; 2001US-0214591
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         drug allergy; dermatitis; pneumonia; asthma; inflammatory bowel disease; Crohn's disease; scleroderma; autoimmune disease; multiple sclerosis; human immunodeficiency virus; HIV; systemic lupus erythematosus; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytostatic; B cell maturation protein; BCMA; tumour necrosis factor; TNF; lymphoproliferative disorder; tumour; lung; gastrointestinal; pancreatic; prostate; inflammation; immune disorder; diarrhoea; psoriasis; colitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human B cell maturation protein cysteine rich extracellular region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE15501;
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                                                                                                                                                                                                                                                                                                                                                                                       protein (BCMA) activity in a mammal. The method comprises administering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-MAY-2001; 2001WO-US15567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rheumatoid arthritis; atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; transmembrane activator and intracellular CAML interactor; TACI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AMGE-) AMGEN INC
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                                                                                                                                                                                                                                                                                                                                                                                                           relates to a method for inhibiting TACI (transmembrane intracellular CAML interactor) and/or B cell maturation
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33.5%;
100.0%;
Pred.
323;
DB 23;
3e-27;
      Length 58;
Sequence
                                                                                                                                     The invention activator and
117 AA;
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Query Match Best Local Similarity

Sequence

58

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ARBSULT 14
ARABITA AND ARABITA CC protein (BCMA) activity in a mammal. The method comprises administering CC a specific binding partner for APRIL (G70, a tumour necrosis factor-TNF CC family ligand), having the consensus region of TACI, BCMA, or the TACI/CC BCMA extracellular consensus sequence, but not the extracellular region CC of TACI or BCMA. The method is useful for inhibiting activity of TACI CC and/or BCMA in a mammal which is useful for treating B-cell or T-cell CC lymphoproliferative disorders, one or more solid tumours such as lung, CC gastrointestinal, pancreatic or prostate tumour. APRIL, BCMA and TACI CC antagonists are useful for treating inflammation and immune function CC diseases such as diarrhoea, poorisais, allergies, pneumonia, atopic CC diseases such as diarrhoea, poorisais, allergies, preumonia, atopic CC disease, of drug and insect sting allergy, inflammatory bowel disease (Crohn's disease, colitis), scleroderma, autoimmune disease (multiple colerosis, rheumatoid arthritis, systemic lupus erythematosus), funggal, CC constanting protozoal and viral infections (HIV), atherosclerosis, cancer CC with leucocyte infiltration of the skin or organs. The present sequence is human-murine B cell maturation protein (RTMA) concerns. 밁 ş Matches AAE15491; AAE15491 standard; Protein; Disclosure; Fig 11; 94pp; Inhibiting activity of B cell maturation protein and/or transmembrane activator and intracellular cyclophilin ligand interactor, by administering a binding partner for APRIL, a tumor necrosis factor family ligand . WPI; 2002-066686/09 27-JUN-2000; 14-MAY-2001; 14-MAY-2001; 2001WO-US15567. WO200187979-A2 Chimeric -Chimeric - Homo sapiens. Crohn's disease; scleroderma; autoimmune disease; multiple sclerosis; human immunodeficiency virus; HIV; systemic lupus erythematosus; cancer; cytostatic; B cell maturation protein; BCMA; tumour necrosis factor; TNF; lymphoproliferative disorder; tumour; lung; gastrointestinal; pancreatic; Human; transmembrane activator and intracellular CAML interactor; TACI; Human-murine B cell maturation protein (BCMA) consensus sequence 12-MAR-2002 Theill LE, rheumatoid arthritis; atherosclerosis; mouse prostate; 12-MAY-2000; (AMGE-) AMGEN INC. tate; inflammation; immune disorder; diarrhoea; psoriasis; colitis; allergy; dermatitis; pneumonia; asthma; inflammatory bowel disease;  $\vdash$ 58; CSQNEYFDSLLHACI PCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAI LWTCLGLSL I CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLI Mus sp. ; 2000US-204039P. ; 2000US-214591P. ; 2001US-0214591. Yu G; Conservative (first entry) relates to a method for inhibiting TACI (transmembrane intracellular CAML interactor) and/or B cell maturation English. 0 A Mismatches 0 Indels <u>0</u> Gaps 58 65

Query Match Best Local

Similarity

32.3%; .Score 311.5; DB 61.5%; Pred. No. 1.3e-25

DB 23;

Length 117;

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RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; A Proliferation Inducing Ligand Receptor; APRIL-R; cytostatic; gene therapy; cancer; nephrotropic; renal disorder; autoimmune disease; carcinoma; lung; colon; breast; prostate; Grave's disease; hypertension;
                                                                                                                       06-OCT-1999; 99US-0157933.
11-FEB-2000; 2000US-0181807.
30-JUN-2000; 2000US-0215688.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAE00507 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                  Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        systemic lupus erythematosus; SLE; inflammation; cardiovascular disease; B-cell lympho-proliferative disorder; BCM; immunosuppressive disease; organ transplantation; HIV; human immunodeficiency virus; TNF; murine; tumour necrosis factor; B cell maturation protein; BCMA; fusion protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human BCMA-Immunoglobulin G Fc region fusion construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-JUL-2001
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                      N-PSDB; AAD03847.
                                                                                                                                                                         05-OCT-2000; 2000WO-US27579
                                                                                                                                                                                                  12-APR-2001
                                                                                                                                                                                                                         WO200124811-A1
                                                                                                                                                                                                                                                                           Domain
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                                                                                                                                                                                                                                                                                                                                                                                                   Key
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                                   2001-266242/27.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISL
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                                                          Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                           gp.
                                                                                                                                                                                                                                                                                                                                                           /label= Signal peptide
/note= "Derived from murine Ig kappa sequence"
                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                      /note=
                                                                                                                                                                                                                                                              label= Cysteine_rich_domain
                                                                                                                                                                                                                                                                                                                                    label= Mature_human_BCMA_IgG_Fc_fusion_protein
                                                                                                                                                                                                                                                                                                              note= "Derived
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                                                                                                                                                                                                                                                                                    "Derived from human IgG Fc region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                              region.
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    Mismatches

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                                                                                                                                                                                                                                                from human BCMA"
                                                                                                                                                                                                                                                                                                              from human BCMA protein"
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Search completed: June 23, Job time : 92.3073 secs

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Treating a mammal for a condition associated with undesired cell

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         carcinoma e.g. human lung carcinoma, colon carcinoma, breast carcinoma, prostate carcinoma, and other carcinomas whose proliferation is modulated by ARRIL. It is also useful for treating autoimmune diseases (Grave's disease, systemic lupus erythematosus-SLE); hypertension, cardiovascular diseases, renal disorders, B-cell lympho-proliferative disorders, immunosuppressive diseases, organ transplantation, inflammation and human immunodeficiency virus (HIV), and for treating, suppressing or altering an immune response involving a signalling pathway between APRIL-R and its ligand. APRIL-R DAPRIL-R and its ligand. APRIL-R Toolving a signalling human APRIL-R The present sequence is a fusion construct containing human APRIL-R and its ligand. APRIL-R DAPRIL-R Toolving a signalling human APRIL-R The present sequence is a fusion construct containing human APRIL-R and its ligand. APRIL-R Toolving a signalling human april human APRIL-R Toolving a signalling human april human APRIL-R Toolving a signal human april                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method of treating a mammal for a condition associated with undesired cell proliferation such as cancer or carcinoma. The method involves administering a composition comprising A Proliferation Inducing Ligand Receptor (APRIL-R) also referred as B cell maturation protein (BCM or BCMA) antagonist that antagonises the interaction between APRIL and its cognate receptor(s). This method is useful for treating undesired cell proliferation such as cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              proliferation such as cancer or carcinoma, comprises administering
composition comprising A Proliferation Inducing Ligand Receptor
(APRIL-R) antagonist -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (IgG) and a signal sequence from murine Ig kappa
                                                                    165
                                                                                                                                  114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                      VI--
                                                                                                                                                                                                                                                                                                                                                                                                                                          MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCL
GKEYKCKVSNKALPA-PIEKTIS
                                                                                                                                                                                                    YTVEECTCEDCIKSKPKVDSD-----
                                                                                                                                                                                                                                                                                                                               GLSLIISLAVFVLMFLLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLE 120
                                                                                                                                                                                                                                                                                                                                                                                                 MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGVDK-THTC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      302 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                      -CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN 170
                                                                 CKSLPAALSATEIEKSIS 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29.7%;
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                                                                                                                                                                                                                                                                     ----PPC----PAPELLGGPSVFLFPPKPKDTLMISRTPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 286.5; DB 2
Pred. No. 2.3e-22;
3; Mismatches 54
                                                                                                                                                                                                    HCFPLPAMEE-----GATILVTTKTNDY--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 22;
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